

**This Page Is Inserted by IFW Operations  
and is not a part of the Official Record**

## **BEST AVAILABLE IMAGES**

**Defective images within this document are accurate representations of the original documents submitted by the applicant.**

**Defects in the images may include (but are not limited to):**

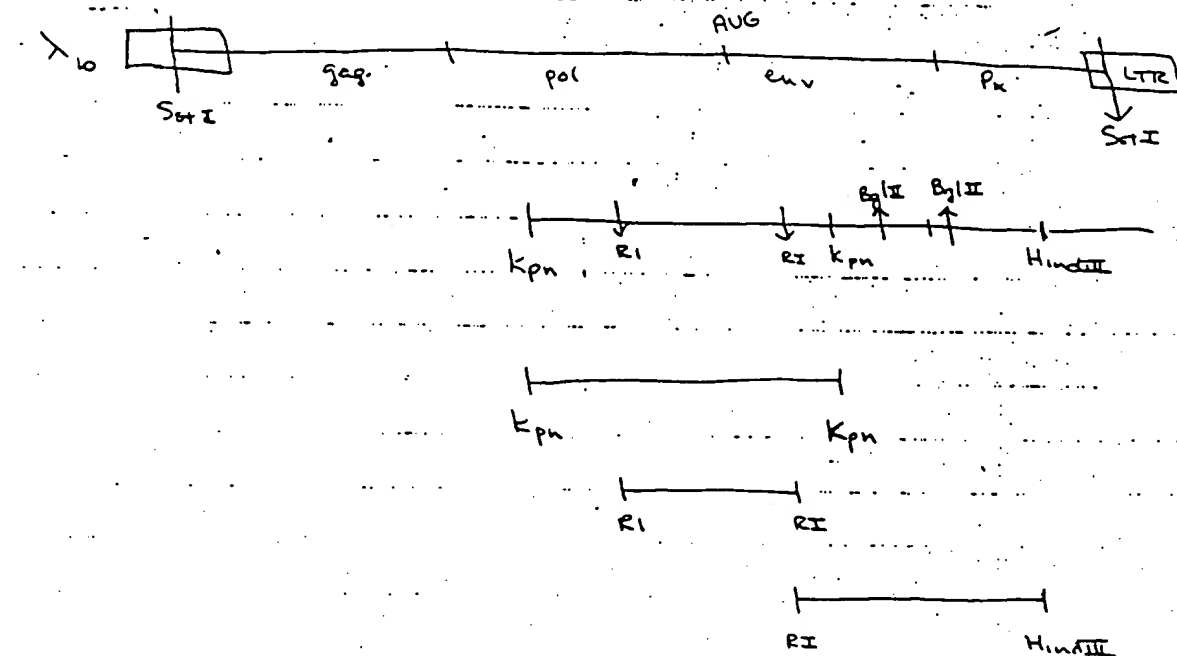
- **BLACK BORDERS**
- **TEXT CUT OFF AT TOP, BOTTOM OR SIDES**
- **FADED TEXT**
- **ILLEGIBLE TEXT**
- **SKEWED/SLANTED IMAGES**
- **COLORED PHOTOS**
- **BLACK OR VERY BLACK AND WHITE DARK PHOTOS**
- **GRAY SCALE DOCUMENTS**

**IMAGES ARE BEST AVAILABLE COPY.**

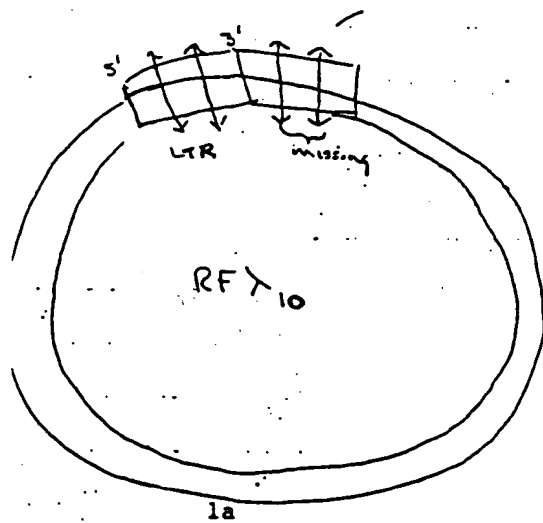
**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

659339

FIGURE 1

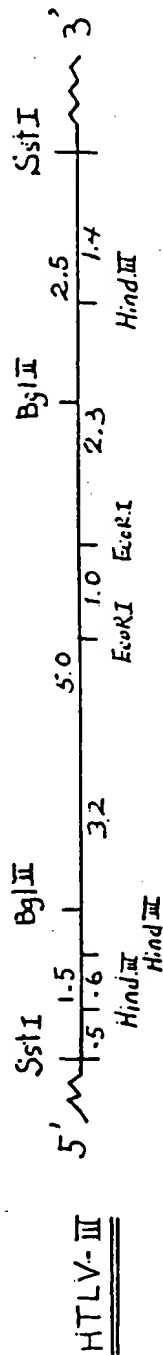


1b



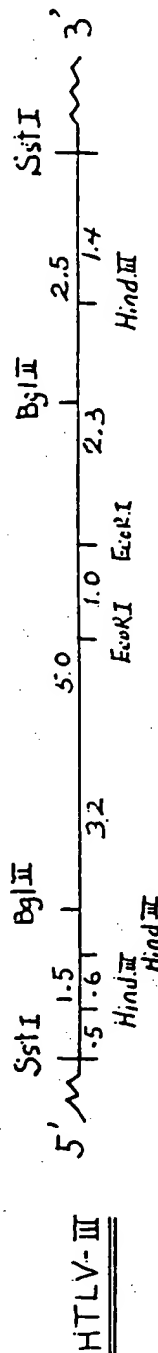
059339

FIGURE 2

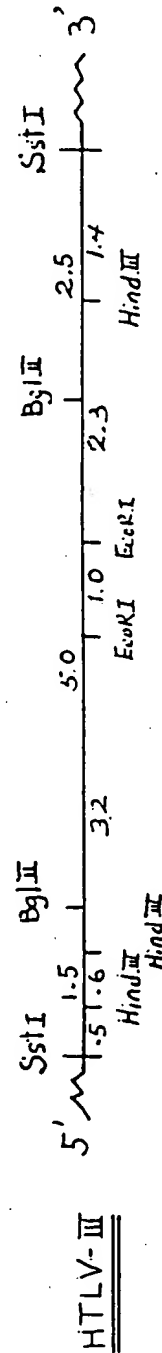


059339

FIGURE 2



LTR	gag	pol	env	px	LTR
-----	-----	-----	-----	----	-----



(A)

[illegible]

(A)

[illegible]

FIGURE 3

(A)

10	20	30	40	50	60	70
AAAGATTAG	TTTAAAGCTA	TTTA	TTTAAAGCTA	TGAGGATTA	TGTAATAT	AGTAAGGAG
80	90	100	110	120	130	140
AGGATATG	ATTAGGAT	GGTTCAAGTA	CAGGAGGATA	AAAGTGGATC	AGAGTGGATC	AGTGGATTA
150	160	170	180	190	200	210
AGAGTGGT	ATAGGAGAG	GGTAAGGTAT	ATCTGGGATG	GGTGGGCTCA	GGGAGAGGAA	TTGAGGAGAA
220	230	240	250	260	270	280
GGAGAGATC	GATAGATTA	TGAGTGGTGG	AGTCAGGAAA	ATGCTATTTT	TAGATGGGAT	AGTAAAGGGC
290	300	310	320	330	340	350
AGGATATC	ATAGGAGATA	TGAGGATTA	TGGGAGGAT	TGGTATGTA	TTTAAAGCTG	GGAGGATTA
360	370	380	390	400	410	420
AGGAGGAA	AGTGGATC	AGTGGTATTA	AGTGGATC	AAAGGAGGAA	GGGATGGATC	GGGAGGATTA
430	440	450	460	470	480	490
TTTAAAGCTA	GGGATGGATC	AGTGGATTA	TAGGATTTA	GGGAGGAGAA	TTTGGTGGT	AGGATTTTA
500	510	520	530	540	550	560
TAGGATTA	GATATATAG	AGGAGGATC	ATTCAGGAG	AAAGAGGAG	GGGAGGATC	TATTTTATTT
570	580	590	600	610	620	630
AGGATTTTA	AGGAGGATC	GGGATGGATC	GGGATGGATC	AGGATTTTA	AGGATTTTA	GGGATTTTA
640	650	660	670	680	690	700
GGGATTTTA	GGGATTTTA	GGGATTTTA	GGGATTTTA	GGGATTTTA	GGGATTTTA	GGGATTTTA
710	720	730	740	750	760	770
GGGATTTTA	AGTATATAG	TAAAGGATTA	AGGAGGATTA	TAGGAGGATC	AGGAGATCAG	GGGATTTTA
780	790	800	810	820	830	840
GGGATTTTA	AGTAAAGATC	GGGATTTTA	TGGGATTTT	TAAAGGAGAA	GGGATTTTA	GGGATTTTA
850	860	870	880	890	900	910
GGGATTTTA	AGGATATAG	AGGATATAG	AGGATATAG	AGGATATAG	AGGATATAG	AGGATATAG
920	930	940	950	960	970	980
AGGATTTTA	ATTTTGGGAT	TTTATAGG	AGGATTTTA	ATTTTGGGAT	AGGATTTTA	AGGATTTTA



[illegible]

[illegible]

059339

(C)

2370 2400 2410 2420 2430 2440 2450  
TGGAGGCAAG CAGGCAACAC TGTATTTTGT GGTACAGATC CTAAACCATTA TGATACAAGG GGTACATAAT  
2460 2470 2480 2490 2500 2510 2520  
GT TTGGGCA CAGATGGCTG TGTACCCACA GAGGCGAGCC CAGGAGAGAT AGTATTTGTA AGTGTGAGCG  
2530 2540 2550 2560 2570 2580 2590  
AAGATTTTAA CATGIGGAAA AATGACATG TAGACAGAT GATGAGGAT ATATCATTT TATGGATTA  
2600 2610 2620 2630 2640 2650 2660  
AGGCTAAG GATGTGTAA AATTAGCCCC AGTGTGTGT AATTAGAGT GAGTCLTT GAGGAGAT  
2670 2680 2690 2700 2710 2720 2730  
ACTAATGCG ATAGTACTAG CAGGAGATG ATATGAGGA GAGGAGAT GAGGAGATG TTTTCAATA  
2740 2750 2760 2770 2780 2790 2800  
TLAGGAGAG CATAGAGGT AGGUTGAGA AAGATATGC ATTTTTTAT AAGCTTGA TATAGCAT  
2810 2820 2830 2840 2850 2860 2870  
AGATATGAT ACTAGAGCT ATAGGTTGAG AGGTTGAGC AGGTCAGTA TTACAGAGC CTGCCCCAAG  
2880 2890 2900 2910 2920 2930 2940  
GATGCTTTG AGGAGTTGC CATACATTAT TGTGCCCCG CTGTTTTTC GATCTAAAA TGTAGTATA  
2950 2960 2970 2980 2990 3000 3010  
AGGUTGAG TGGAGAGGA CATGTAGAA ATGTCAGAC AGTTCATGT ACACATGAA TTAGCCAGT  
3020 3030 3040 3050 3060 3070 3080  
AGTATGAGT CAGTGTGT TAAATGAG TGTACAGAG GAGGAGTAG TAATTAGATC TGTAGTTTC  
3090 3100 3110  
ACGAGAGAT CTAAAGCAT AATAGTACG CT

059339

(C)

2370 2400 2410 2420 2430 2440 2450  
TGBAAGGAG GAGGAGGAG TGTATTTTGT GATCAGATG CTAAAGGATA TGATACAAGG GGTACATAAT  
2460 2470 2480 2490 2500 2510 2520  
GTTTGGGGA GAGTGGGTG TGTAGGAGA GAGGAGGAG GAGGAGGAGT AGTATTCGTA AGTGTGAGG  
2530 2540 2550 2560 2570 2580 2590  
AAGATTTTA GATGAGGAA AATGACATG TAGGAGGAT GATCAGGAT ATATCATTT TATGGGATA  
2600 2610 2620 2630 2640 2650 2660  
AGGCTAAGG GATGTGTAA AATTAAGGG GTGTGTGTG GTGTGTGTG GATGTGTGT GATGTGTGT  
2670 2680 2690 2700 2710 2720 2730  
ACTAATGGA ATAGTATG GGGGAGGAT ATAGTATG GAGGAGGAT GAGGAGGAT TTTTGTATG  
2740 2750 2760 2770 2780 2790 2800  
TLAGGAGAG CATAGAGGT AAGTGGGAA AAGATATGG ATTTTGTAT AAGTGTATG TATAGGAGT  
2810 2820 2830 2840 2850 2860 2870  
GATATATAT ATAGGAGGT ATAGTATG AAGTGTATG AAGTGTATG TATAGGAGT TATAGGAGT  
2880 2890 2900 2910 2920 2930 2940  
GATATATAT AAGTGTATG ATAGTATG AAGTGTATG AAGTGTATG TATAGGAGT TATAGGAGT  
2950 2960 2970 2980 2990 3000 3010  
AAGTGTATG TATAGGAGT ATAGTATG AAGTGTATG AAGTGTATG TATAGGAGT TATAGGAGT  
3020 3030 3040 3050 3060 3070 3080  
AATATATAT GATGTGTGT TATAGGAGT TATAGGAGT GATGTGTGT TATAGGAGT TATAGGAGT  
3090 3100 3110  
AAGTGTATG CTAAAGGAT AATAGTATG CT

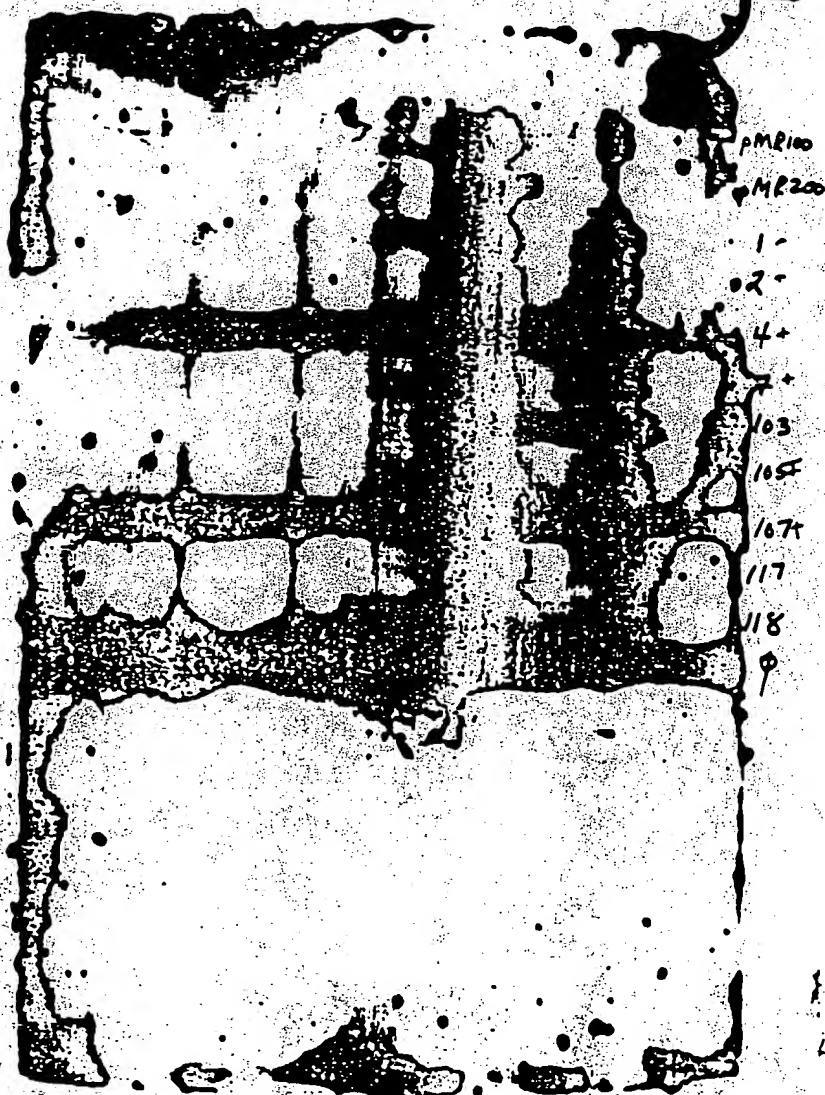
659339

①

2370	2400	2410	2420	2430	2440	2450
TGGAAGGAG	CAACCAACCAC	TCTATTTTGT	GCATCAGATC	CTAAGGCATA	TGATACAAGA	GGTACATAAT
2460	2470	2480	2490	2500	2510	2520
CTTTGGGGA	CACATGCTG	TGTACCCACA	GACCCGAGC	CACAGGAAGT	AGTATTCGTA	AGTGTGACAG
2530	2540	2550	2560	2570	2580	2590
AGAAITTTAA	GATGIGGAAA	AATGACATG	TAGAACAGAT	GCATCAGGAT	ATATCATTT	TATCGATTA
2600	2610	2620	2630	2640	2650	2660
AGCCCTAAG	CGATGTGTA	AATTAACCC	ACTGTGTGT	AGTITAGAT	CGACTGTTT	GAGGATGAT
2670	2680	2690	2700	2710	2720	2730
ACTAATGCA	ATACTACTAG	CGGAGGATG	ATATCGGAGA	CAGGAGGAT	GAGGAGGAT	TGTTTCAAT
2740	2750	2760	2770	2780	2790	2800
TGAGGAGAG	CATAGAGGT	AGGTCGAGA	AGGATATGC	ATTTTTTAT	AGCTTGTAT	TGATGCGAT
2810	2820	2830	2840	2850	2860	2870
CGATATGAT	ACTACGAGC	ATAGGTCAG	AGGTTGTAG	AGCTCAGTA	TTACAGATG	CAGTCCGAG
2880	2890	2900	2910	2920	2930	2940
GATGCTTGT	AGGATTTGC	CATACATTAT	TGTCGCGCG	CTGCTTTTC	GATTCTAAA	TGTAGTATG
2950	2960	2970	2980	2990	3000	3010
AGGCTGTA	TGGAAGGAA	CGATGTGTA	ATGTCGAGC	AGTTCATGT	ACACATGAA	TGATGCGAT
3020	3030	3040	3050	3060	3070	3080
AGTATGAT	CAGTGTGT	TAAATGCTAG	TGTAGGAGG	GAGGAGGAT	TATTAGATC	TGTATGCTC
3090	3100	3110				
ACGAGAGAT	CTAAGGAT	ATAGTACAG	CT			

FIGURE 4

659369



PMR100  
MR200

1-

2-

4+

2+

103

105

107

117

118

9

*Handwritten:*  
10/6/64